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Wednesday, April 19, 2006


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715731 (09) 6453767 September 24, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6453767

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September 24, 2002

Adjustable vehicle control pedals

APPL-NO: 715731 (09)


FILED-DATE: November 17, 2000

GRANTED-DATE: September 24, 2002

CORE TERMS: pedal, arm, driven, slot, screw, pivot, jack, pin, shaft, gear ...

ENGLISH-ABST:

An adjustable control pedal apparatus is used in a motor vehicle. The pedal apparatus includes a pedal assembly mounted to a support bracket mounted to the vehicle by a pivot shaft. The pivot shaft contains a worm gear. The pedal assembly includes a pedal arm pivotally mounted to an inner arm. A jack screw extends between the inner arm and pedal arm. The jack screw has a pinion portion on one end which is driven by the worm gear of the pivot shaft. A threaded portion of the jack screw is threadably received in a slide block mounted to the pedal arm. Rotation of the pivot shaft by a motor correspondingly turns the jack screw to adjust the position of the pedal.

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Segments: Abst, Appl-no

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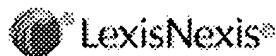
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Patent Number :

US6453767 B1 20020924 [US6453767]

Title :

(B1) Adjustable vehicle control pedals

Patent Assignee :

(B1) KSR IND CORP (US)

Patent Assignee :

KSR Industrial Corporation, Southfield MI [US]

Inventor(s) :

(B1) WILLEMSEN LARRY G (CA); KOLWICH GREGORY SCOTT (US)

Application Nbr :

US71573100 20001117 [2000US-0715731]

Filing Details :

Divsn of US309526 19990511 [1999US-0309526]

C.I.P. of US135346 19980817 [1998US-0135346]

C.I.P. of US947563 19971009 [1997US-0947563] (Abandoned)

Division of: US6151986

Continuation-in-part of: US6178847

Priority Details :

US71573100 20001117 [2000US-0715731]

US30952699 19990511 [1999US-0309526]

US13534698 19980817 [1998US-0135346]

US94756397 19971009 [1997US-0947563]

Intl Patent Class :

(B1) G05G-001/14

IPC Advanced All :

G05G-001/14 [2006-01 A - I R M EP]

IPC Core All :

G05G-001/14 [2006 C - I R M EP]

EPO ECLA Class :

G05G-001/14P

US Patent Class :

ORIGINAL (O) : 074512000; CROSS-REFERENCE (X) : 180334000

Document Type :

Corresponding document

Citations :

US2860720; US2906342; US2908183; US2936867; US3301088; US3319487;
US3338348; US3400607; US3511109; US3643524; US3691868; US3754480;
US3765264; US3798995; US3828625; US3958677; US3975972; US4497399;
US4683977; US4870871; US4875385; US4912997; US4989474; US5010782;
US5078024; US5086663; US5172606; US5351573; US5385068; US5408899;
US5460061; US5497677; US5632183; US5722302; US5771752; US5996438;
US5996439; US6019015; US6073515; US6151985; DE2644628; JP58-47923

Publication Stage :

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :

An adjustable control pedal apparatus is used in a motor vehicle. The pedal apparatus includes a pedal assembly mounted to a support bracket mounted to the vehicle by a pivot shaft. The pivot shaft contains a worm gear. The pedal assembly includes a pedal arm pivotally mounted to an inner arm. A jack screw extends between the inner arm and pedal arm. The jack screw has a pinion portion on one end which is driven by the worm gear of the pivot shaft. A threaded portion of the jack screw is threadably received in a slide block mounted to the pedal arm. Rotation of the pivot shaft by a motor correspondingly turns the jack screw to adjust the position of the pedal.

Update Code :

2002-40

1 / 1 LGST - @EPO

Patent Number :

US6453767 B1 20020924 [US6453767]

Application Number :

US71573100 20001117 [2000US-0715731]

Action Taken :

20001227 US/AS-A

ASSIGNMENT

OWNER: KSR INDUSTRIAL CORPORATION SUITE 330 20300 CIVIC C

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:WILLEMSSEN, LARRY G.;KOLWICH, GREGORY SCOTT;REEL/FRAME:011409/0422;SIGNING DATES FROM 20001122 TO 20001127

20040106 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030708

Update Code :

2004-31

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :

6,453,767 A 20020924 [US6453767]

Patent Assignee :

KSR Ind Corp

Actions :

20030708 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040106

REISSUE REQUEST NUMBER: 10/615553

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3682

Reissue Patent Number:

INPADOC International Patent Documentation Center

Source: European Patent Office - EPIDOS

Individual publication stage records for each Patenting Authority

Coverage: 75 patent offices ; start dates vary from 1968 forward

Current through weekly update 2006-15/up ; last update 2006/04/14

IPC Classes: for searching prior to 2006, use the qualifier: /IC

For searching IPC v8 (pd>=2006), use the qualifiers: /ICAA /ICCA

1 / 1 INPADOC - @INPADOC

Patent Number :

US 6453767 BA 20020924 [US6453767]

Title :

ADJUSTABLE VEHICLE CONTROL PEDALS

Inventor(s) :

WILLEMSSEN LARRY G [CA]; KOLWICH GREGORY SCOTT [US]

Patent Assignee (Words) :

KSR IND CORP [US]

Application Details :

US 715731/00-A 20001117 [2000US-0715731]

Priority Details :

US 715731/00-A 20001117 [2000US-0715731]

US 309526/99-A3 19990511 [1999US-0309526]

US 135346/98-A2 19980817 [1998US-0135346]

US 947563/97-B2 19971009 [1997US-0947563]

Intl. Patent Class. :

G05G-001/14

1 / 1 LGST - @EPO

Patent Number :

US6453767 B1 20020924 [US6453767]

Application Number :

US71573100 20001117 [2000US-0715731]

Action Taken :

20001227 US/AS-A

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OWNER: KSR INDUSTRIAL CORPORATION SUITE 330 20300 CIVIC C

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:WILLEMSSEN, LARRY G.;KOLWICH,
GREGORY SCOTT;REEL/FRAME:011409/0422;SIGNING DATES FROM 20001122 TO
20001127

20040106 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030708

Update Code :

2004-31